

## DANIEL B. BOTKIN: BIOGRAPHICAL SUMMARY

**DANIEL B. BOTKIN** is Research Professor, Dept. Of Ecology, Evolution and Marine Biology, University of California, Santa Barbara, and President of The Center for The Study of The Environment, Santa Barbara, CA, a non-profit corporation that provides independent, science-based analyses of complex environmental issues. He has been a Professor of Biology and Director of The Program in Global Change at George Mason University, Fairfax, VA; Professor of Biology and Chairman of Environmental Studies at the University of California, Santa Barbara, and Professor of Systems Ecology at the Yale School of Forestry and Environmental Studies. His degrees are: B.A. (Physics; University of Rochester) M.A. (Literature, University of Wisconsin) and a Ph.D. (Biology, Rutgers University).

Botkin is widely known for his research in forestry and ecosystem science. He developed the first successful computer simulation in ecology, a computer model of forest ecosystems that has become a subdiscipline, with more than 50 versions in use worldwide. A leader in the application of advanced technologies to ecosystem science, he was one of the first to apply satellite remote sensing to the study of forests, and the use of computer-based geographic information systems to environmental issues. He has helped develop major national programs in ecology, including the National Science Foundation's Long-term Ecological Research Program and NASA's Mission to Earth.

Botkin is also a leader in the application of environmental sciences to solve complex environmental problems. Currently, he cochairs a panel concerning monitoring of salmon in the Pacific Northwest. Previously, he directed a project funded by the Oregon Legislature on the effects of forest practices on salmon and their habitats in 26 rivers of western Oregon and Northern California.

Botkin is known widely for his books about the idea of nature and the implications of modern science for our ideas about environment. His most influential book, *Discordant Harmonies: A New Ecology for the 21st Century* (Oxford University Press), is helping change the way the citizens, agencies, and corporations view environmental issues. He is the author of two major textbooks, *Environmental Science: The Earth as a Living Planet* and *The Blue Planet: An Introduction to Earth Systems Science*. Among his other books are *Forest Dynamics: An Ecological Model* (Oxford University Press); *Changing The Global Environment: Perspectives on Human Involvement* (Academic Press); and *Forest Succession: Concepts and Applications*, (Springer-Verlag).

He is the 1995 recipient of the Fernow Award for Outstanding Contributions in International Forestry, given by American Forests and the German Forestry Association. Also in 1995, he was elected to the Environmental Hall of Fame, housed at California Polytechnic Institute, Pomona, California. He is the 1991 winner of the \$50,000 first prize of the Mitchell International Prize for Sustainable Development. He is a fellow of the AAAS, and has been a fellow at the Rockefeller Bellagio Institute in Italy and the Woodrow Wilson International Center for Scholars, Washington, D. C. He is a member of the Cosmos Club of Washington, D. C.

Botkin has advised the World Bank about tropical forests, biological diversity, and sustainability; the Rockefeller Foundation about global environmental issues; the government of Taiwan about approaches to solving environmental problems, development of nature preserves, and devising data systems for environmental monitoring, and many federal and state agencies about forestry and environmental issues.